



This documentation is for informational purposes only and subjected to change.

Always check YDS for the latest version.

- 1. <u>Maintenance</u> <u>Check list</u>
- 2. <u>Diesel Fuel</u> Specifications
- 3. Lubricants/ coolants
- 4. <u>Replacement Parts</u>

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### 1. Maintenance Check list | Maintenance

				: By	user	•	: By	autor	rized	YAN	MAR	deal	er or	distr	ibut	or
								Ser	vice	Inter	vals					
Торіс		Interval	Daily	If necessary	FIRST 50 hours	Every 50 hours	Every 250 hours	Every 500 hours	Every 1000 hours	Every 1500 hours	Every 2000 hours	Every 3000 hours	Every 6000 hours	Every 9000 hours	Every 1 year	Every 2 years
Engine Oil Level	Check	Daily	▼													
Transmission Hydraulic Oil Level	Check	Daily	▼													
Tire Air Pressure	Check	Daily	▼													
Grille	Check	Daily	▼													
Fuel Tank	Check/Refill	Daily	▼													
Rubber Dust Unloading Valve	Check	Daily	▼													
	Check	Daily   Every 500hr or 2 years *1	▼					•								•
Radiator Hose and Clamp	Replace	If necessary		•												
Radiator Cooling Screen	Check	Daily	▼													
Safety Systems	Check	Daily	▼													
Radiator Cooling Fins	Clean	Every 50 hr			•	▼										
Cooling System	Check	Daily	▼													
Coolant	Flush/Change	Every 2000hr or 2 years *1									٠					٠
	Check	Daily   Every 500hr or 2 years *1	▼					٠								٠
Fuel Line	Replace	If necessary		٠												
	Check	Daily   Every 500hr or 2 years *1	▼					•								•
Power Steering Line	Replace	If necessary		٠												
	Check	Daily   Every 500hr or 2 years *1	▼					٠								٠
Retractable seatbelt	Replace	If necessary		٠												
Roll-Over Protective Structure	Check	Daily   Every 500hr or 2 years *1	▼					٠								٠
(ROPS)	Replace	If necessary		٠												
Headlights, Hazard Lights, and all	Check	Daily   Every 500hr or 2 years *1	▼					٠								٠
other lights (lights and/or bulbs).	Replace	If necessary		▼												
	Inspect	Every 50 hr			٠	▼										
Fan and Alternator Belt	Adjust	50/250 hr and every 250hr after or every year *1			•		•								•	
	Replace	If necessary		٠												
Air Cleaner Element	Check/Clean	Every 250 hr and if necessary $^{\ast_3}$		▼			٠									
All Gleaner Element	Replace	Every 500 hr or every year*1		٠				٠							٠	
Fuses	Replace	If necessary		٠												
Battery Condition	Check	Every 50hr			٠	▼										
Fuel Filter	Replace	Every 500 hr or every 2 years $^{*1}$						٠								





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								Ser	vice	Inter	vals					
Торіс		Interval	Daily	lf necessary	FISRT 50 hours	Every 50 hours	Every 250 hours	Every 500 hours	Every 1000 hours	Every 1500 hours	Every 2000 hours	Every 3000 hours	Every 6000 hours	Every 9000 hours	Every 1 year	Every 2 years
	Check	Daily	▼													
Fuel/Water Separator	Drain	Every 50 hr and if necessary		▼	٠	▼										
	Replace	Every 500 hr or every 2 years *1						٠								•
Wheel Bolt Tightening Torque	Check	After one hour of break -in $^{\ast 2}$ and every 50 hr   Every 250 hr or every 1 year $^{\ast 1}$			•	▼	•								•	
Engine Oil	Change	Every 250 hr or every year $^{\ast 1}$					٠								٠	
Engine Oil Filter	Replace	Every 250 hr or every year $^{\ast 1}$					٠								٠	
Transmission Hydraulic Oil	Change	50/500 hr and every 500hr after			٠			٠								
Transmission Hydraulic Oil Filter	Replace	50/500 hr and every 500hr after			٠			٠								
Line Filter	Replace	50/500 hr and every 500hr after			٠			٠								
Lludroulie been	Check	Daily   Every 500hr or 2 years $^{*1}$	▼					٠								•
Hydraulic hose	Replace	If necessary		٠												
Grease fittings	Grease	Every 50 hr *4			٠	▼										
Toe-in	Inspect/Adjust	50/250 hr and every 250hr after			٠		٠									
Front Axle Pivot	Grease	Every 50hr *4			٠	▼										
Air Intake Hoses and Clamps	Check	50/250 hr and every 250hr after or every year $^{\ast 1}$			•		•								•	
	Replace	If necessary		٠												
Front Axle Gear Oil	Check	Every 50hr			•	▼										
	Change	Every 500hr						•								
Brake	Adjust	Every 500hr						•								
Diake	Replace	If necessary		٠												
Engine Valve Clearance *5	Adjust	Every 1000hr							٠							
Fuel Injection Nozzle *5	Check	Every 1500hr								٠						
ECU & related sensors & actuators $^{\rm *5}$	Inspect	Every 3000 hr or every 2 years $^{\ast 1}$										٠				•
EGR valve *5	Inspect/clean	Every 3000hr										٠				
Crankcase breather system *5	Inspect	Every 1500hr								٠						
Intake throttle valve *5	Check and adjust	Every 3000hr										•				
DPF DOC and related actuators $^{\ast 5}$	Inspect	Every 3000hr										٠				
DOC *5	Replace	Every 9000hr												٠		
Soot filter *5	Clean	At 6000hr and 6000hr after replacement											•			
	Replace	Every 9000hr												٠		



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1. Maintenance Check list | CAB type, attachments

				▼: Ву	user	•		utoriz stribu	zed YA itor	NMA	R dea	aler o	r
							Servi	ce Int	erval	s			
Торіс		Interval	Daily	If necessary	FIRST 50 hours	Every 50 hours	Every 250 hours	Every 500 hours	Every 1000 hours	Every 1500 hours	Every 2000 hours	Every 1 year	Every 2 years
Internal air inlet filter	Clean	Every 250 hours					•						
	Replace	Every 500hr or 2 years *1						٠					•
External air inlet filter	Clean	Every 250 hr and if necessary		▼			٠						
	Replace	Every 500hr or 2 years *1						٠					
Condenser screen	Clean	Daily	▼										
Condenser	Clean	Every 50 hours			٠	▼							
147	Check	Every 500hr or 2 years *1						٠					٠
Warm water piping	Replace	If Necessary		٠									
	Inspect	Every 50 hours			٠	▼							
Compressor drive belt	Adjust	50/250 hr and every 250hr after or every year *1			•		٠					٠	
Wascher Liquid tank	Check/refill	Daily	▼										
Front Lift hydraulic lines. Check for leakages *4	Check	Daily   50/500 hr and every 500hr after			٠								
Front lift	Grease	Every 50 hr				▼							
Front Lift and front PTO bolts on torque	Check	50/500 hr and every 500 hr after or every 2 years *1			٠			•					
Front PTO grease nipples	Grease	Every 500 hr						٠					
	Check	Every 250 hr					٠						
Front PTO gear oil	Replace	Every 500hr or every year *1						٠				٠	
Front DTO oil filten	Clean	Every 500hr or every year *1						٠				٠	
Front PTO oil filter	Replace	If Necessary		٠									
Danukar	Grease	Every 50 hr				▼							
Drawbar	Check	50/500 hr and every 500hr after			٠			٠					

\*1 Whichever occurs first.

\*2 Check the Wheel bolts tightening torque after one hour of break -in.

<sup>\*3</sup> At Dusty Conditions: Clean filter once every 50 operating hours.

\*4 Extremely Wet or Muddy Conditions: Lubricate the grease fittings once every 10 operating hours or once a day.

<sup>\*5</sup> Dealer can find descriptions of this maintenance on YDS (Manual, Bulletin or Service News).







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### 2. Diesel Fuel Specifications

#### 2.1. Diesel fuel regulation

Diesel fuel should comply with the EN590:96.

#### 2.2. Additional technical fuel requirement

- Sulphur content not greater than 10 mg/kg (15 mg/kg at point of final distribution)
  - Cetane number not less than 45

#### 2.3. Bio-diesel fuel

In consistency with other global diesel engine manufacturers and diesel fuel injection equipment manufacturers, YANMAR encourages the development of renewable compression ignition fuels and wishes to clarify our position on the use of biodiesel fuels in YANMAR Industrial Engines.

Non-mineral oil based fuel resources such as RME (Rapeseed Methyl Ester) and SOME (Soybean Methyl Ester), collectively known as FAME (Fatty Acid Methyl Esters), are being used as extenders for mineral oil derived diesel fuels.

After YANMAR conducted the applicability evaluation, YANMAR approves the use of B7 (up to 7 % FAME) Diesel which shall not exceed a blend of 7 % (by volume) of FAME with 90 % (by volume) of approved mineral oil derived diesel fuel in YANMAR Industrial Engines.

YANMAR's limited warranty conditions in case certain engines manufactured by YANMAR are operated with B7 Diesel are as follows:

- 1. YANMAR accepts the use of B7 Diesel only on the conditions that B7 Diesel must comply with "the European standard EN14214 and EN590-2009 (for Oxidation stability)" in Europe.
- 2. Please purchase B7 Diesel only from recognized and authorized diesel fuel suppliers.
- 3. Please use only B7 Diesel including methanol as the above relevant regulations state; otherwise, it may cause corrosion in aluminum and zinc fuel injection equipment components.
- 4. Please use only B7 Diesel contained certain water level as the above relevant regulations state; otherwise, it may cause fuel filters plugged and also may increase bacterial growth.
- 5. Please use only B7 Diesel with low viscosity at high temperatures; otherwise, it may cause problems on fuel delivery, injection pump seizures and poor injection nozzle spray atomization.
- 6. Please check the engine oil level daily. If the oil level rises above the oil level of the previous day, the engine oil needs to be immediately replaced.
- 7. Please check and confirm the quality of B7 Diesel and other fuel tanks before you will start to use it. Please keep daily maintenance during the use of B7 Diesel and do not forget to regularly flush the fuel system and fuel storage containers. You may only use B7 Diesel at least within two (2) months from the time of filling the tank or three (3) months from the time of production by the said fuel suppliers, whichever comes first.

YANMAR does not warrant and is not responsible for any problems caused by the use of the deteriorated B7 Diesel or by the use of the B7 Diesel which do not comply with the above relevant regulations.

Consult your YANMAR tractor dealer before using the recommended biodiesel.

The engine of this machine uses precision parts in the fuel injection parts to comply with emission regulations. When storing fuel to be used, avoid using containers made of zinc plated steel sheet, but use resin or stainless metal containers. If the zinc or lead material melt into the fuel, it may cause engine malfunction.



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### 3. Lubricants

No.	Locations		Сарас	cities	L	ubricants
			Unit	YT235		
1.	Coolant*		L	CAB: 5.0 ROPS: 4.5	High Quality Permanent with corrosion and rust ir Coolant Mixture Ratio Distilled Water 50%: Antif	
2.	Engine oil - d	crankcase (with filter)	L	4.3	ACEA Service Categories SAE 10W-30	E3, E4, or E5
3.	Transmissio	n hydraulic oil	L	31	Hydraulic/Transmission I (TF500A)	Fluid
4.	Front axle ca	ase	L	5.5	SAE 80W-90 gear oil	
		Front axle pivot	No. of greasing point	2	Until grease overflows	NLGI GRADE No.2
5.	Greasing	Tie rod end	No. of greasing point	2	Until grease overflows	NLGI GRADE No.2
		Lift link	No. of greasing point	1	Until grease overflows	NLGI GRADE No.2

(Specifications and design are subject to change without prior notice for improvement)

\*Immediately after purchasing the tractor:

 $\boldsymbol{\cdot}$  adjust the coolant mixture ratio of the coolant and water to suite the local climate

• the preceding practice assists in making the tractor function efficiently

The coolant can remain unchanged for a period of 2 year if during the period the tractor is operated for less than 2000 hours. If the tractor is operated for more than 2000 hours during the period, the coolant has to be replaced during flushing of the system. After pouring the coolant, run the engine for a short period to mix the two fluids thoroughly.

### YANMAR GENUINE LUBRICANTS & COOLANTS

Type & Description	Change int. (h)	Size	Order no.
	YT235		
		5 L	10W30-5L
10W-30 Engine oil*	200	20 L	10W30-20L
		208 L	10W30-208L
TF500A Transmission & hydraulic fluid*	600	20 L	TF500A-20L
80W90 Gear oil	300	1 L	80W90-1L
SUVY O Gear OIL	300	20 L	80W90-20L
Grease-calcium	50	400 gr	GREASE-CALCIUM
		1 L	COOLANT-1L
0	1000/0	5 L	COOLANT-5L
Coolant**	1000/ 2 years	20 L	COOLANT-20L
		208 L	COOLANT-208L



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\*First lubricant change is at 50 hours 🛛 \*\* Hours interval or time apply, whichever comes first



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### 4. Replacement parts

For a copy of the Illustrated Parts List or the Technical Manual of the tractor, contact your local YANMAR Tractor dealer. Only use the YANMAR authentic parts. Non-authentic parts can cause serious damage and accidents.

ltem	Part Number
Engine Oil Filter	129150-35153
Transmission Hydraulic Oil Filter	198119-48310
Line filter	1A7180-48191
Outer Filter	1A8240-05110
Inner Filter	1A8240-05120
Fuel Filter Element	129A23-55800
Water Separator Element	129A00-55730
Alternator Belt	25152-004100
1 Amp Fuse	1A8426-52800
10 Amp Fuse	198535-52120
15 Amp Fuse	198535-52130
20 Amp Fuse	198535-52140
50 Amp Slow Blow Fuse	1E8720-83120
80 Amp Fuse	198153-51700
Battery	1A842E-51510
Headlights Bulb	1A8070-53140
Turn Signal/Hazard Lights Bulb (Front) CAB	1A7100-53220
Turn Signal/Hazard Lights Bulb (Front) ROPS	1A8060-53410
Turn Signal/Hazard Lights Bulb (Rear)	1E9170-81270
Tail Lights Bulb (Rear)/Brake lamp (Rear)	1A7400-53530
Compressor Belt	25132-005600
Gas damper	1A8470-61360
Front position lamp (CAB)	1A7100-53230
Front position lamp (ROPS)	1A8060-53400



## Easy ordering and part kits overview

Order all the parts you need for the required maintenance intervals of your YANMAR Tracor easy and fast with the Tractor Maintenance Kits overview.



Save 10% on parts by ordering service kits



interval with one click Easy ordering with copying and pasting the kit number in YDS

Navigate to the desired maintenance

Clear overview of all maintenance intervals and required parts per tractor

Direct links to the parts catalogue, the maintenance and service manual for your YANMAR tractor





Download the Tractor **Maintenance Kits overview** 

